

**UIC-1-8-4**

**EPA FALL-OFF  
TEST**

**2019**



May 15, 2019

Mr. Carl Chavez, CHMM  
NM Energy, Minerals & Natural Resources Department  
Oil Conservation Division, Environmental Bureau  
1220 South St. Francis Dr.  
Santa Fe, NM 87505-5472

**RE: 2019 Pressure Fall Off Testing for Wells WDW-1, WDW-2 and WDW-3, HollyFrontier Navajo Refining LLC**

Dear Mr. Chavez,

Enclosed, please find the C-103's for the Pressure Fall Off Testing schedule for 2019. This schedule is a notification upon approval and equipment availability to perform WDW-1, WDW-2 and WDW-3. As is the case for testing, I will notify you and the OCD Office in Artesia of actual dates and times. As per our letter request for WDW-4 dated 4/16/2019, WDW-4 will be tested June, 2020. If there are any questions, please contact Randy Dade at 575-746-5281.

Respectfully,

Lewis R. Dade  
Environmental Specialist  
HollyFrontier Navajo Refining LLC

Electronic cc: S Denton, R Combs  
Env. File: Env./ Injection Wells / Pressure Fall Off Tests / 2019



April 16, 2019

Mr. Carl Chavez, CHMM  
NM Energy, Minerals & Natural Resources Department  
Oil Conservation Division, Environmental Bureau  
1220 South St. Francis Dr.  
Santa Fe, NM 87505-5472

RE: 2019 Fall Off Testing for Wells WDW-1, WDW-2, WDW-3 and WDW-4  
HollyFrontier Navajo Refining LLC

Dear Mr. Chavez,

As per our conversation on March 26, 2019 concerning Pressure Fall Off Testing (FOT) of Navajo's UIC program injection wells. Navajo is proposing performing FOT on wells WDW-1, WDW-2 and WDW-3 for the 2019 period and adding well WDW-4 starting in 2020.

WDW-4, (30-015-44677) had the initial FOT performed in October 2018. The test was performed on the newly drilled open hole formation with an injection rate of 420 gpm of 8.9 ppg fluid for approximately 9 hours. The well was shut in and the pressure falloff was monitored for 24 hours. This data gathered during this test showed that WDW-4 would exceed the initial reservoir modeling resulting in lower injection pressures and have a smaller cone of influence and lower pressure buildup as originally calculated in the original permit. WDW-4 was put into service on January 16, 2019 and has been in continual service since that date.

Please find enclosed the initial FOT for WDW-4 (UICI-8-4) and C-115's for all four wells for January, February and March 2019. WDW-4 has injected a total of 710,571 barrels through March 31<sup>st</sup>, 2019 with a monthly average of 236,857 barrels per month. The injection pressure is averaging 62.7 psig. Navajo requests that the 2020 Fall Off Tests occur in the second and third quarters of 2020 to have all four wells on the same testing schedule. This will allow for collection of 18 months of injection data for WDW-4. WDW-4 has been performing to our expectations and Navajo feels that there is little to no benefit in performing a FOT on WDW-4 with less than one full year of quality data.

If there are any questions, please contact Scott Denton at 575-746-5487.

Respectfully,

Scott M. Denton  
Environmental Manager  
HollyFrontier Navajo Refining LLC

**HollyFrontier Navajo Refining LLC**  
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